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ABSTRACT OF THE DISCLOSURE

A high copper low alloy steel sheet made by the steps comprising preparing a molten melt producing an as-cast low alloy steel comprising by weight, between 0.02 % and 0.3% carbon, between 0.10% and 1.5% manganese, between 0.01% and 0.5% silicon, less than 0.04% sulfur, greater than 0.01 % and less than or equal to 0.15% phosphorus, less than 0.05% aluminum, more than 0.20% copper, less than 0.03 % tin, and less than 0.10 % nickel, and the remainder iron and impurities resulting from melting, and solidifying the molten melt into sheet less than 10 mm in thickness in a non-oxidizing atmosphere to below 1080°C. The copper content may be between 0.2% and 2.0% by weight. The high copper low alloy steel may also have a corrosion index (I) of at least 6.0 in accordance with ASTM G101 where: I = 26.01 (% Cu) + 3.88 (% Ni) + 1.20 (% Cr) + 1.49 (% Si) + 17.28 (% P) - 7.29 (% Cu)(% Ni) -9.10 (% Ni)(% P) -33.39 (% Cu). The high copper low alloy steel may be produced by twin roll casting, and may have thickness less than 5 mm or less than 2 mm in thickness.